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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/652,339	09/02/2003	Seizo Fujimoto	Q76670	1625
23373	7590 11/19/2004		EXAMINER	
SUGHRUE MION, PLLC			ALLEN, ANDRE J	
2100 PENNS SUITE 800	YLVANIA AVENUE, N.W		ART UNIT PAPER NUMBER	
WASHINGTON, DC 20037			2855	

DATE MAILED: 11/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/652,339	FUJIMOTO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Andre J. Allen	2855				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 02 Se	Responsive to communication(s) filed on <u>02 September 2003</u> .					
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 1-6 is/are allowed. 6) ☐ Claim(s) 7 and 8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

- The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 A person shall be entitled to a patent unless
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 7 is rejected under 35 U.S.C. 102(b) as being anticipated by applicants admitted prior art (AIPA)(laid open Japanese N0.2000-337987).

Regarding claim 7 AIPA teaches a sensor element in the form of a gauge resistor arranged to be present in a medium (page 1 line 8), the pressure of which is to be detected, for detecting the pressure of the medium, a control element (page 1 line 10) for controlling an electric signal from said sensor element; a power supply element for controlling an input from a power supply (page 1 line 11) and a signal from said control element thereby to generate an output, a terminal (page 1 line 14) having said control element and said power supply element mounted thereon for outputting a signal from said power supply element to the outside, and a resin body that is formed by integrating said control element, said power supply element and said terminal with one another (page 1 line 14-16).

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2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived

by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over applicants admitted prior art (AIPA)(laid open Japanese N0.2000-337987).

Regarding claim 8 AIPA teaches integrating the control element, power supply and terminal but does not explicitly teach said resin body is formed by integrating said control element, said power supply element and said terminal with one another by means of insert molding. However, it would have been obvious to a person having ordinary skill in the art of manufacturing at the time the invention was made to modify the AIPA by integrating the control element, power supply and terminal by whatever welding, bonding or molding techniques readily available to the user for the purpose of coupling a plurality of elements together.

Allowable Subject Matter

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3. Claims 1-6 are allowed.

The following is an examiner's statement of reasons for allowance: The cited prior art does not disclose nor suggest wherein any one of said sensor element, said control element and said power supply element is arranged at one side surface of said lead frame, with the remaining two being arranged on the other side surface of said lead frame or wherein said lead frame has an exposure portion at which a portion thereof between said sensor element and said control element and between said sensor element and said power supply element is exposed outside, and said exposure portion is bent into a U-shaped configuration so that said sensor element is arranged to overlap with said control element and said power supply element.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patents 6521966, 5394751, 5225373,6615669 and 5126813 disclose sensing devices that incorporate gauge resistors.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre J. Allen whose telephone number is 571-272-2174. The examiner can normally be reached on mon-fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andre Allen Patent Examiner Art Unit 2855 EDWARD LEFKOWITZ SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800